

GOVERNMENT ENGINEERING COLLEGE, VALSAD

DEPARTMENT OF ENVIRONMENTAL ENGINEERING



Report on

Industrial visit at

Common Effluent Treatment Plant

&

Centre of Excellence (COE), Vapi

Details of Industrial Visit

Name of industry: Common Effluent Treatment Plant & Centre of Excellence, Vapi

Date of Visit: 12-April-2022 – (Visit of 6th semester, batch-1)

13-April-2022 – (Visit of 6th semester, batch-2)

Number of Participants:

- 1) 6th semester – Batch 1 : 35 students with Prof. K. K. Modi, Prof. M. N. Chaudhary
- 2) 6th semester – Batch 2 : 34 students with Prof. M. H. Patel, Prof. M. K. Kunvarani

Objectives of industrial visit: To observe and understand practical application of various units of the Common Effluent Treatment Plant and Laboratory set-up at Centre of Excellence.

EVENT DESCRIPTION :

- The Department of Environmental Engineering organized an industrial visit to Common Effluent Treatment Plant & Centre of Excellence, Vapi on 12th and 13th April, 2022. The visit was organized for sixth semester students of the department. The total number of students who visited the plant was 69. The students were accompanied by two faculty members on each day as mentioned above.
- The students and faculty member were welcomed by **Mr. Kamlesh Bhagat** at CETP, Vapi and **Mr. Deepak Kacchhii** at COE, Vapi. The department is grateful to **Mr. Sandeep Chapaneri**, HR & Admin of CETP for giving the permission and also in helping us conduct the visit smoothly. The students and faculties were provided with Helmets for safety and were briefed about the safety measures to be followed during the industrial visit. Batch 1 and 2 were further formed into two groups each and one faculty member along-with one plant operator was assigned. At first, the students visited the CETP, followed by lunch and then COE visit.
- Vapi CETP, is a conventional plant consisting of physical, chemical and biological treatment. The plant receives combined wastewater, consisting of both domestic and industrial waste from the various industries in the area. The waste water generated by all industrial units is conveyed to CETP through an underground pipeline network. The total capacity of the treatment plant is 55MLD with 519 member industries.
- Currently, the students of 6th semester are learning the subject of designing of treatment units and so this visit turned out to be in-line with the requirement of academics. The students could actually understand the working, operation and maintenance of various treatment units like; Inlet Chamber, Automatic Fine Screen, Grit Chamber, Equalization Tank, Flash Mix & Flocculator, Primary Clarifier, Aeration Tank, Secondary Clarifier, Sludge Handling and Interim Storages for sludge.

- Later, the students were given refreshments followed by lunch. After a break of an hour, the visit of COE was started. Centre Of Excellence, Vapi is a Project conceived and set up by Vapi Green Enviro Ltd., under the IIUS Scheme of Govt. of India. The Centre of Excellence has been conceived to provide state of the art facilities, to industries for constant Up-gradation of processes and products and for developing new products. Centre of excellence is the outcome of dedicated efforts and selfless and honorary services rendered by a group of industry people.
- Finally, the visit ended and students were enlightened with knowledge and they gained good understanding of the operation and maintenance of treatment plant.

Glimpses of Industrial visit:

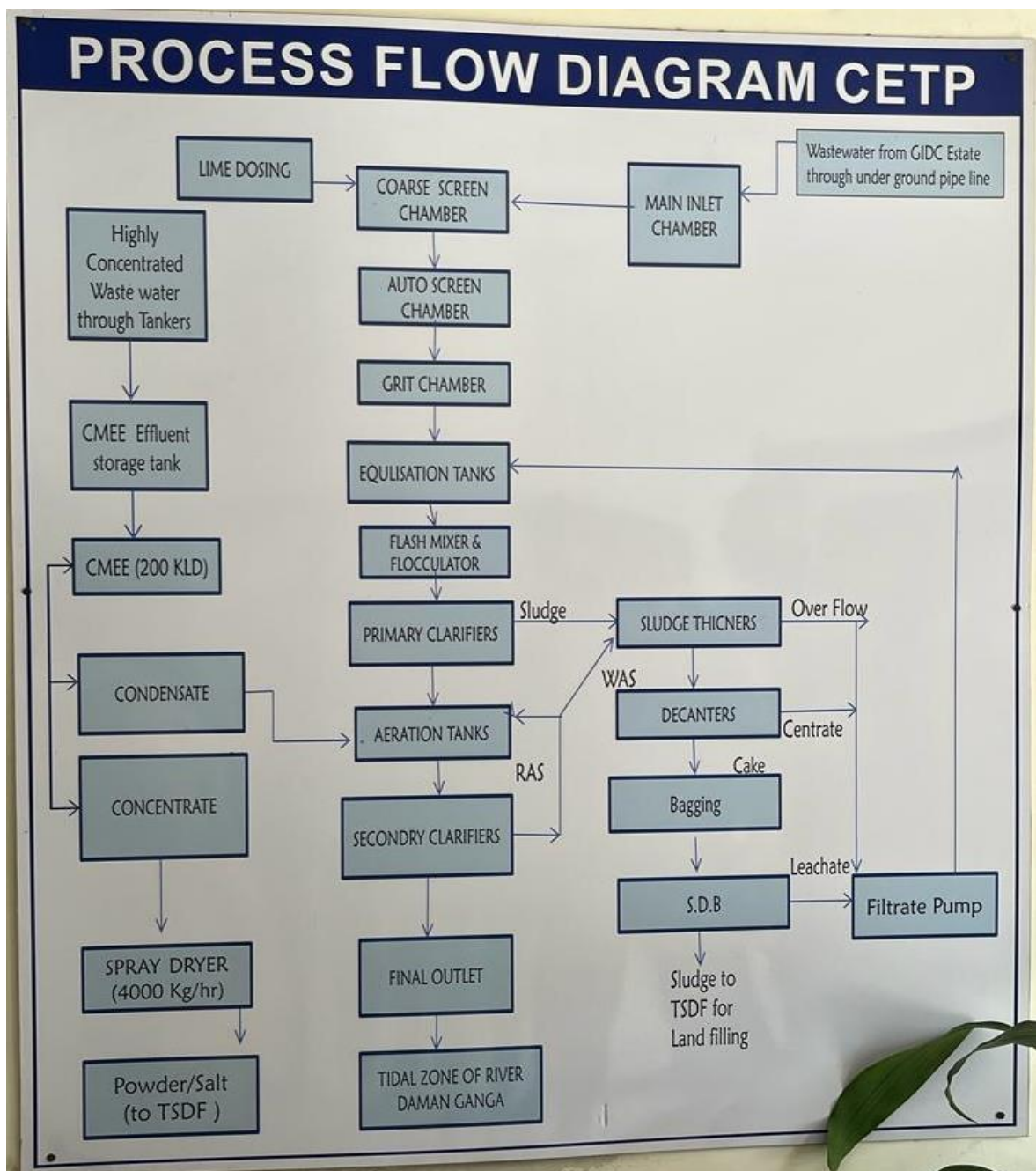


Image 1: Process flow diagram of CETP



Image 2: 6th semester students (Batch 1) with Prof. K. K. Modi & Prof. M. N. Chaudhari dated 12th April 2022 at CETP, Vapi



Image 3: 6th semester students (Batch 2) with Prof. M. H. Patel & Prof. M. K. Kunvarani dated 13th April 2022 at CETP, Vapi



Image 4: 6th semester students (Batch 2) with Prof. M. H. Patel & Prof. M. K. Kunvarani dated 13th April 2022 at COE, Vapi